

Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI)

10-10-2022 to 16-10-2022

Central Laboratory for Instrumentation and Facilitation (CLIF)

University of Kerala

REPORT

The University of Kerala in association with the Department of Science and Technology (DST), India and Shivaji University, Kolhapur conducted the seven-day workshop “Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI)” on sophisticated instruments for the research scholars and young faculty members from all over India, during 10-10-2022 to 16-10-2022, at the Central Laboratory for Instrumentation and Facilitation (CLIF), University of Kerala. This program familiarized the participants with sophisticated instruments for characterization such as XPS, PXRD, NMR, XRF, SEM, Confocal Microscope, AFM, ICPMS, TGA/DTA, LCMS, Raman Microscope and FTIR spectrometer. This workshop included theory lectures as well as demonstration/hands on training by experts in the respective fields.

FLYER

Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI)
Central Laboratory for Instrumentation and Facilitation (CLIF)
University of Kerala, Thiruvananthapuram
October 10-16, 2022

In collaboration with
Shivaji University, Kolhapur, Maharashtra
Supported by
Department of Science and Technology
Ministry of Science and Technology, Government of India



University of Kerala:

University of Kerala was established in 1937 as the University of Travancore in the erstwhile princely state of Travancore. The University has climbed the heights of excellence during the past eight decades and has recently been re-accredited by NAAC in the third cycle with A++ grade (3.67/4). The University has twin campus spread over a total area of about 350 Acres and housing 43 departments. The University is one of the major higher education hubs in southern India engaged in research and development activities in the frontier areas of science and technology.

CLIF

The institution is a state-of-the-art scientific instrumentation and computation facility centre set up during 2015-2016. This centre, one of the largest facilitation centres in the State, lends its support to the research activities of the University Departments, other institutions under University of Kerala and Research Institutions and Industries nationwide. The centre houses a broad spectrum of equipment for performing a diverse range of analyses in many areas of modern science and technology

About STUTI:

The STUTI Scheme, funded by the DST, Government of India, is intended to build human resource and its knowledge capacity through open access to S & T Infrastructure across the country by organizing training programs on DST supported R&D equipment, targeting researchers across various institutions in the country.

About Shivaji University:

Shivaji University, established on 18th November 1962 has 276 affiliated colleges with 40 post-graduate departments. The University is accredited with NAAC 'A++' grade with CGPA 3.52 in its fourth cycle of re-accreditation in 2021. Various science departments of Shivaji University are well equipped with different sophisticated instruments and laboratory infrastructure procured using funds from various funding agencies. STUTI project is sanctioned by DST to Shivaji University worth Rs. 2.25 crore for organizing training programs on various sophisticated instruments

Course Content:

The main theme of this training program is to familiarize the participants with sophisticated instruments for characterization such as XPS, PXRD, NMR, XRF, SEM, Confocal Microscope, AFM, ICPMS, TGA/DTA, LCMS, Raman Microscope and FTIR spectrometer. The training program includes theory lectures as well as demonstration/hands on training on the sophisticated instruments by experts in the field.

Goal of STUTI Program:

- The participants will understand and familiarize with the various sophisticated instruments supported by DST and other funding agencies.
- The participants will get skill based knowledge about handling the sophisticated instruments and characterization techniques.

Eligibility:

- Participants should be Indian Citizens.
- Assistant/Associate Professors/Professors/Scientists/Post Doctoral Fellows/ Research Scholars/M. Tech. students who are actively involved in the field of basic or allied sciences or engineering.
- Industry professionals who are actively involved in R&D

Registration Procedure:

- Interested candidates will have to submit the online form (link given below) on or before 15/09/2022.
- Candidates will be selected based on eligibility and availability of seats. The confirmation of selection will be communicated to the selected candidates by 25/09/2022 by email

General Information:

- Registration for the training program is free.
- Registration kit, Course material and Certificate of participation will be provided to the participants.
- Free accommodation will be provided to outstation participants.

Registration link: <https://forms.gle/duYpno5DDcd2J7CD8>

Website: <https://www.keralauniversity.ac.in>

Contact us: 9847314237, 8590324588

Last date of Registration: 15th September 2022

Confirmation of Selection: 25th September 2022

SCHEDULE

<i>10/10/2022 (DAY - 1)</i>	
<i>9.30 AM - 10 AM</i>	REGISTRATION
<i>10 AM - 11 AM</i>	INAUGURATION
<i>11:00 to 11:30</i>	<i>Tea Break</i>
<i>11:30 to 13:00</i>	<i>Keynote Lecture</i>
<i>13:00 to 14:00</i>	<i>Lunch Break</i>
<i>14:00 to 16:00</i>	<i>Invited Lecture</i>
<i>16:00 to 16:15</i>	<i>Tea Break</i>
<i>16:15 to 19:00</i>	<i>Hands on Training of Equipment</i>
<i>19:00 to 20:30</i>	<i>Dinner</i>
<i>11/10/2022 TO 14/10/2022 (DAY - 2 TO DAY - 5)</i>	
<i>09:30 to 11:00</i>	<i>Invited Lecture</i>
<i>11:00 to 11:30</i>	<i>Tea Break</i>
<i>11:30 to 13:00</i>	<i>Invited Lecture</i>
<i>13:00 to 14:00</i>	<i>Lunch Break</i>
<i>14:00 to 15:30</i>	<i>Invited Lecture</i>
<i>15:30 to 16:00</i>	<i>Tea Break</i>
<i>16:00 to 19:00</i>	<i>Hands on Training of Equipment</i>
<i>19:00 onwards</i>	<i>Dinner</i>

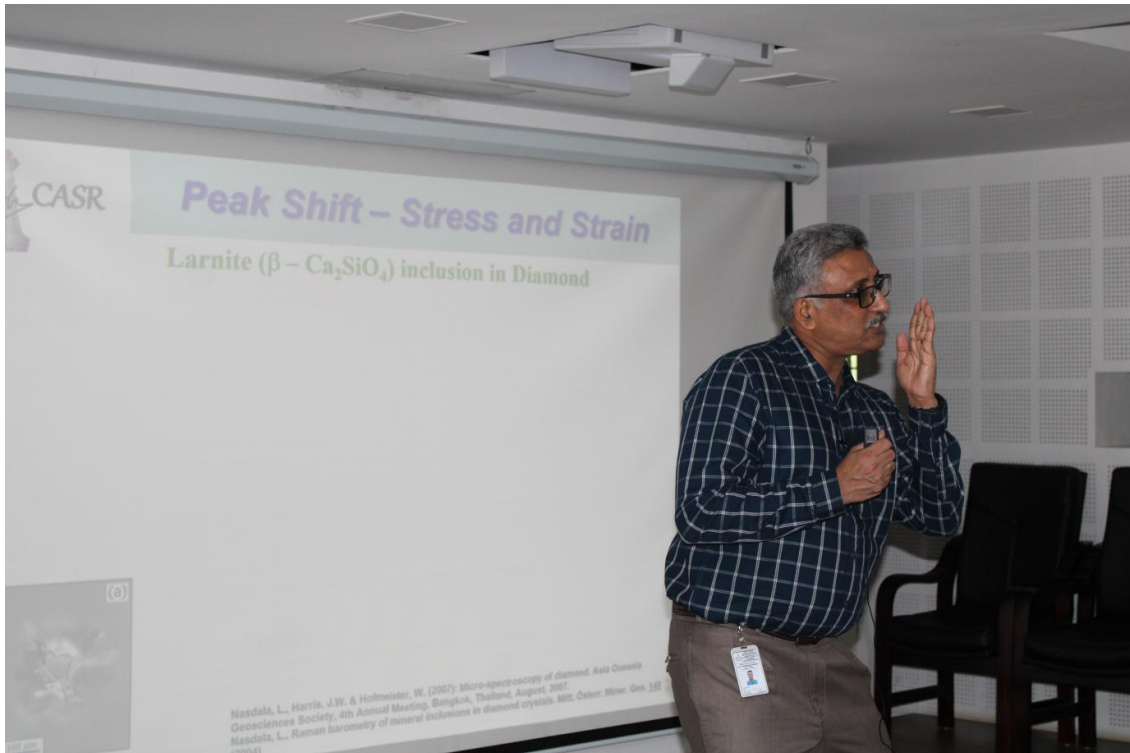
<i>15/10/2022 (DAY - 6)</i>	
<i>09:30 to 11:00</i>	<i>Invited Lecture</i>
<i>11:00 to 11:30</i>	<i>Tea Break</i>
<i>11:30 to 13:00</i>	<i>Invited Lecture</i>
<i>13:00 to 14:00</i>	<i>Lunch Break</i>
<i>14:00 to 15:30</i>	<i>Invited Lecture</i>
<i>15:30 to 16:00</i>	<i>Tea Break</i>
<i>16:00 to 19:00</i>	<i>Field trip</i>
<i>19:00 onwards</i>	<i>Dinner</i>
<i>16/10/2022 (DAY - 7)</i>	
<i>09:30 to 11:00</i>	<i>Invited Lecture</i>
<i>11:00 to 11:30</i>	<i>Tea Break</i>
<i>11:30 to 13:00</i>	<i>Invited Lecture</i>
<i>13:00 to 14:00</i>	<i>Lunch Break</i>
<i>14:00 to 16:30</i>	<i>Hands on Training of Equipment</i>
<i>16:30 to 17:00</i>	<i>Tea Break</i>
<i>17:00 - 18.00</i>	<i>Valedictory Function</i>

INAUGURATION

The program was inaugurated by the Honorable Vice Chancellor of University of Kerala Prof. V. P. Mahadevan Pillai. Dr. Suresh Das, former Executive Vice President of the Kerala State Council for Science, Technology and Environment was the Chief Guest and Prof. Chandrabhas Naryana, Director, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram delivered the keynote address.



INVITED LECTURES





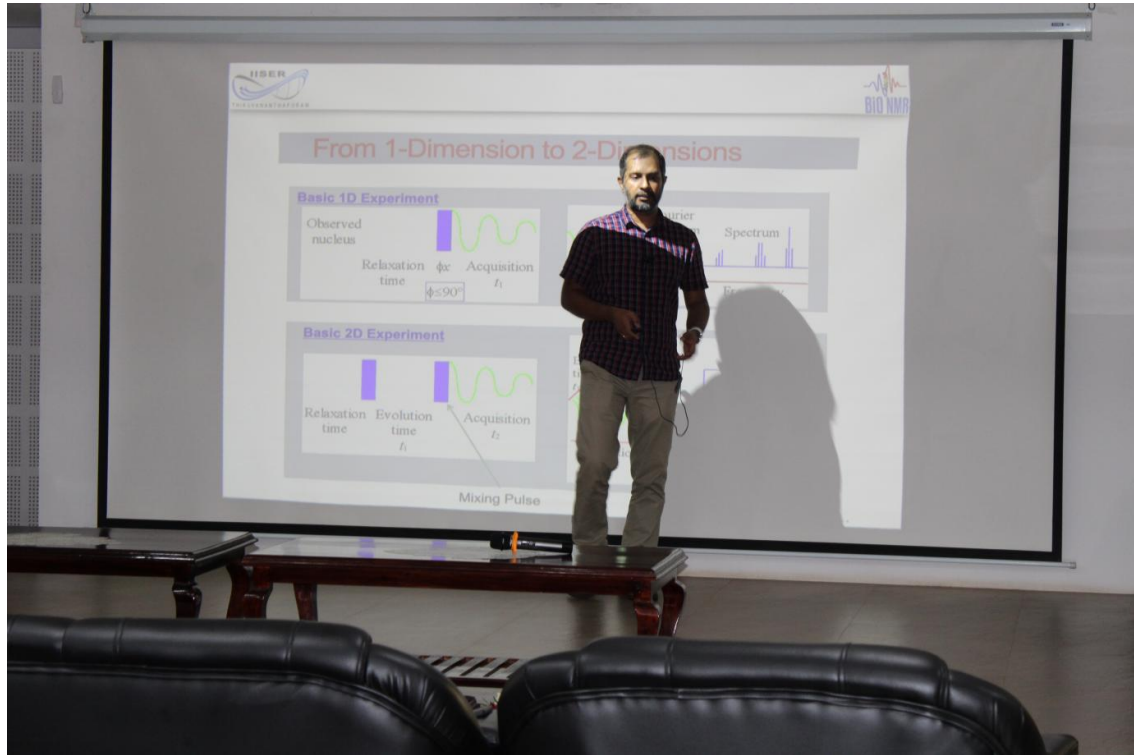






Type of Pump	range (mbar)
rotary	1000 - 0.001
scorption	1000 - 10^{-5}
turbo	(1000) - UHV
diffusion	10^{-5} - UHV
ion	(1000) - UHV
cryo	10^{-5} - UHV
sublimation	10^{-7} - UHV





HANDS ON TRAINING







STUTI IN NEWS

QUICK READ

Workshop on sophisticated scientific instruments begins

T'Puram: A week-long workshop, mainly aimed at familiarising research scholars and young faculty members across the country with sophisticated scientific instruments began at the Central Laboratory for Instrumentation and Facilitation (CLIF), University of Kerala on Monday. The workshop is being organised under the 'Synergistic Training programme Utilizing the Scientific and Technological Infrastructure (STUTI)' scheme of the Union Department of Science and Technology DST. Shivaji University, Kolhapur has also partnered with KU for the initiative. The workshop will conclude on October 16,. Vice-Chancellor V P Mahadevan Pillai inaugurated the programme on Monday. IISER Emeritus Professor Suresh Das delivered a special address. Chandrabhas Naryana, Director, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Syndicate members S Naseeb and K G Gopchandran, CLIF director GM Nair and faculty members Sam Solomon and Subodh G spoke n.



THE NEW
**INDIAN
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<https://epaper.newindianexpress.com/>



PARTICIPANTS WITH COORDINATORS



VALEDECTORY FUNCTION

The Chief Guest for the valedictory function was Prof. R.G. Sonkawade, Director, SAIF-CFC DST Centre, Shivaji University.

